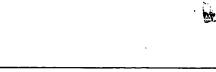
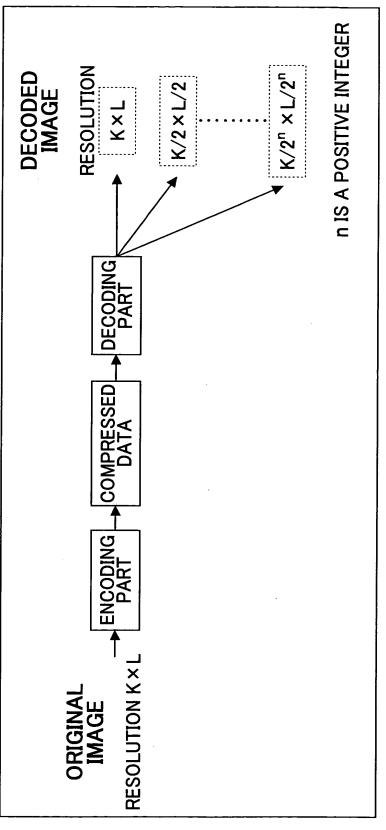
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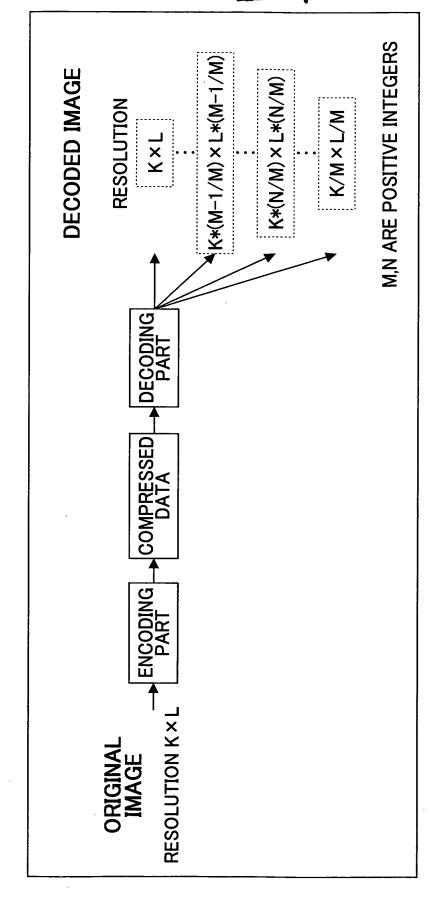
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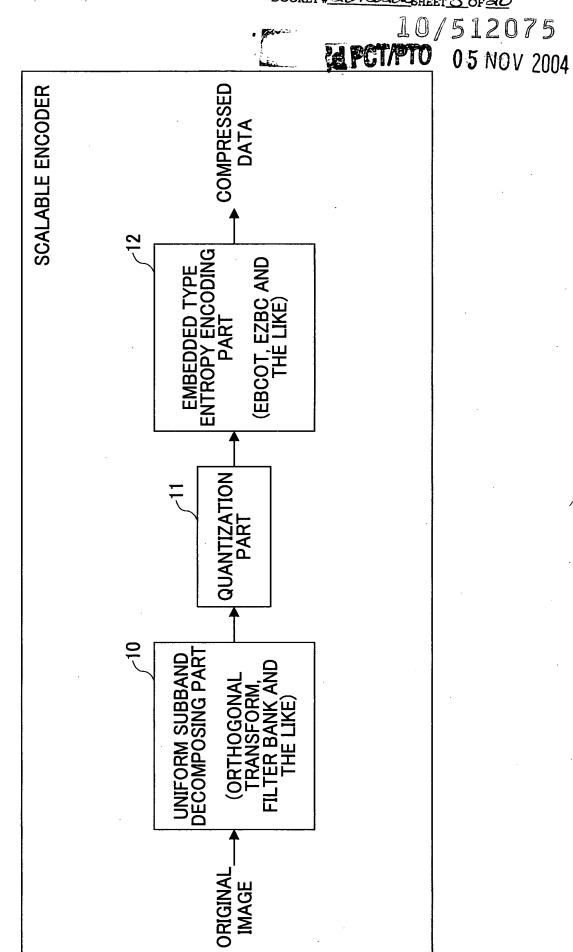
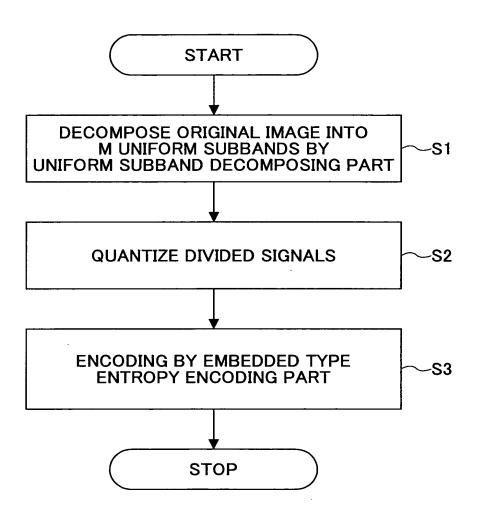
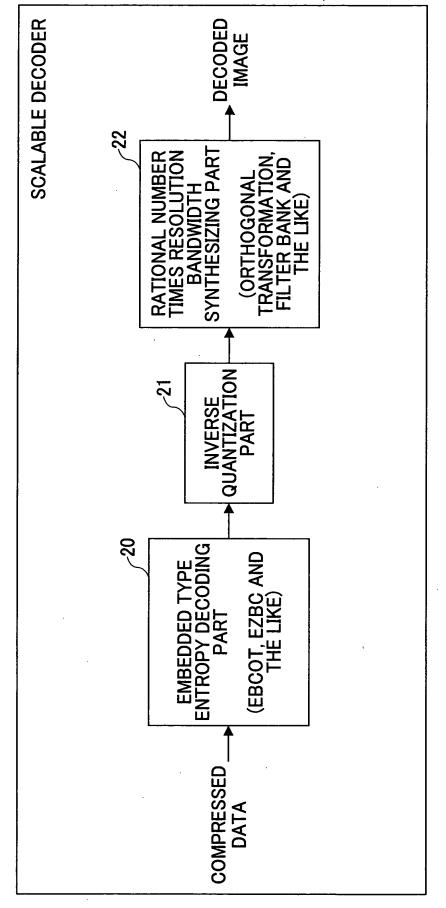


FIG.3



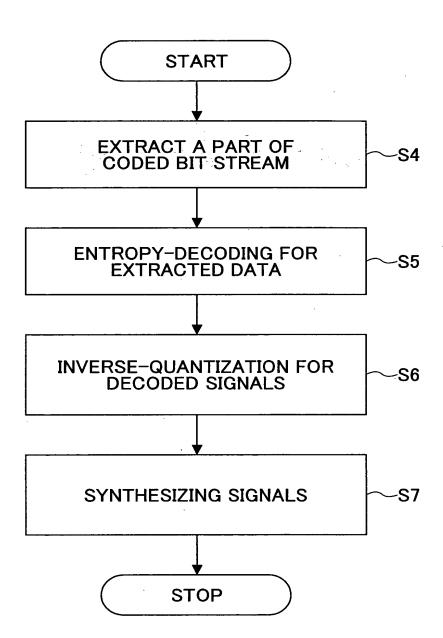


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FIG.6



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COMPRESSED DATA ENCODER CODED CODE PACKETIZING PART QUANTIZATION **PART** 31 ARITHMETIC ENCODING -PART EBCOT UNIFORM SUBBAND DECOMPOSING PART COEFFICIENT BIT 30 **MODELING PART** ORIGINAL IMAGE

FIG.7

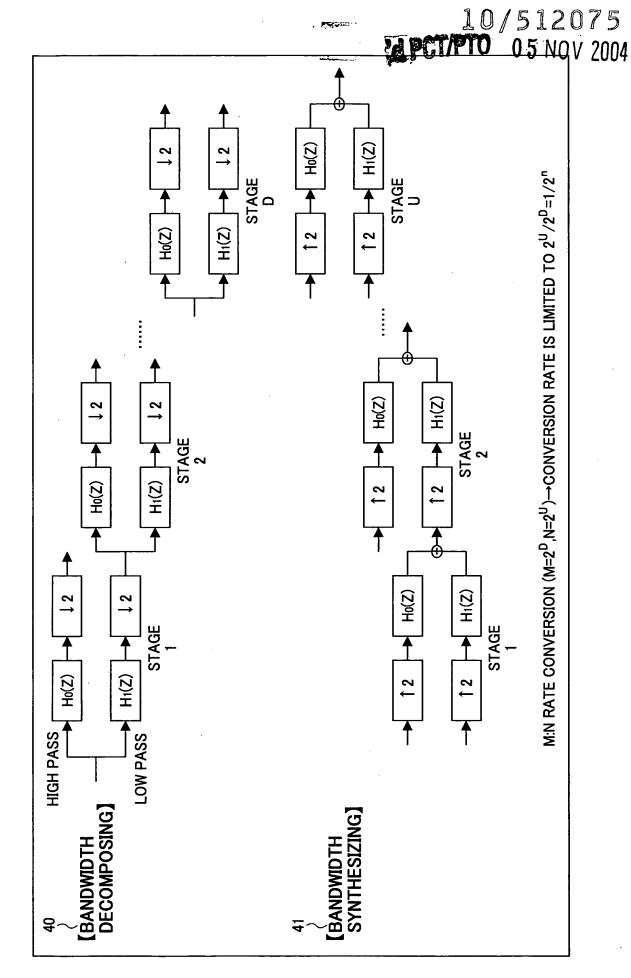


FIG.8

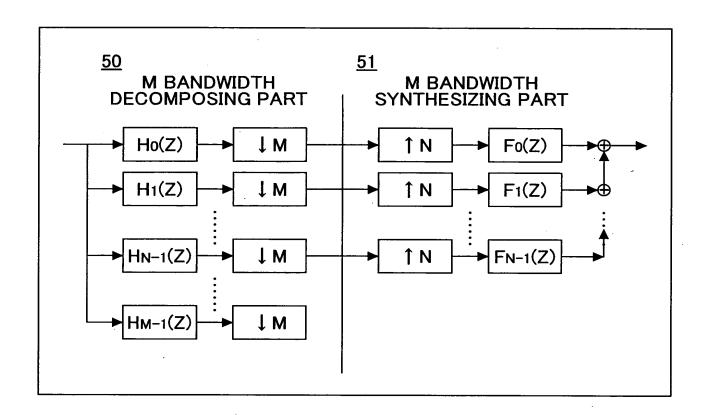
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FIG.9

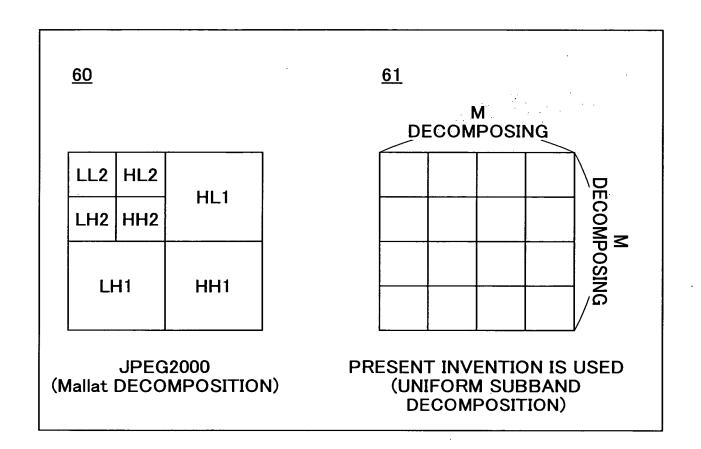


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FIG.11

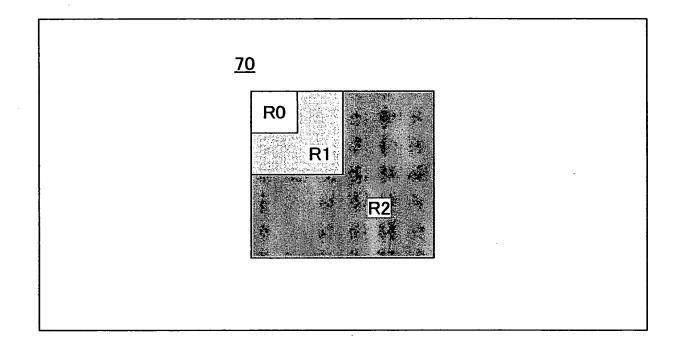
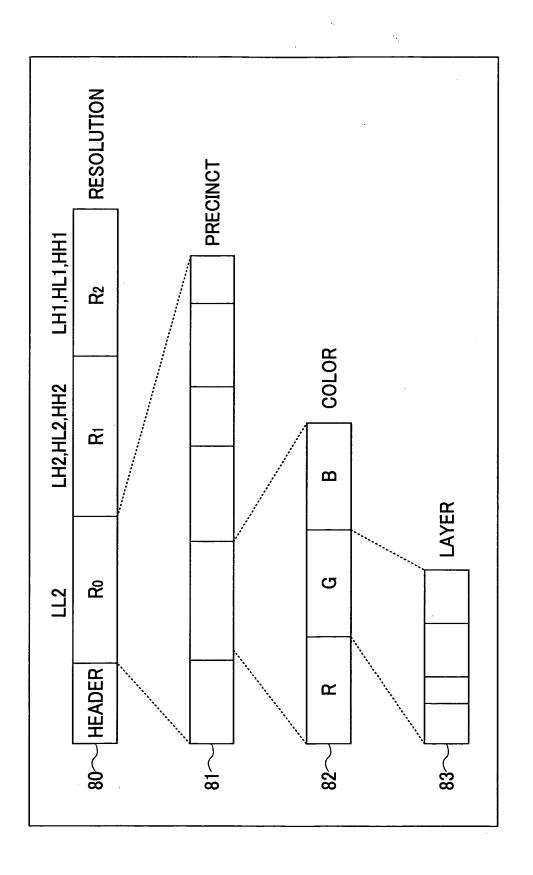


FIG.12

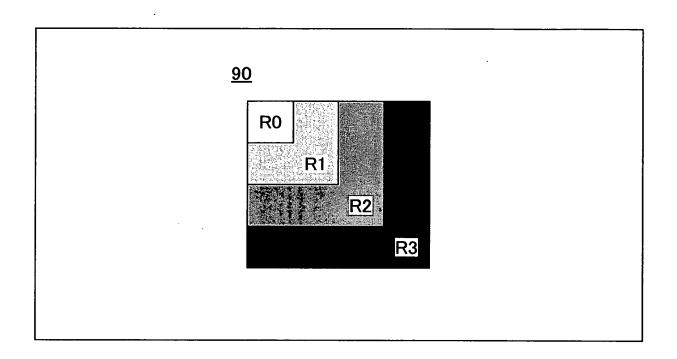


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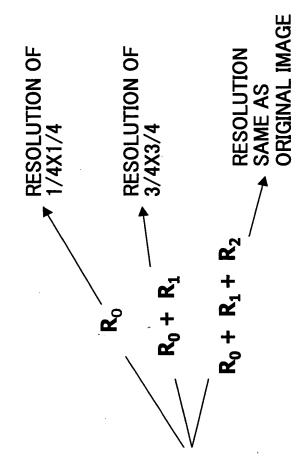
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RESOLUTION **PRECINCT** Ξ 쬬 COLOR 쮼 $\mathbf{\omega}$ LAYER G ස HEADER \simeq

DBLON ET AL (703) 413-3000

DCKET #2613024.Sheet 150 F 20 7 5

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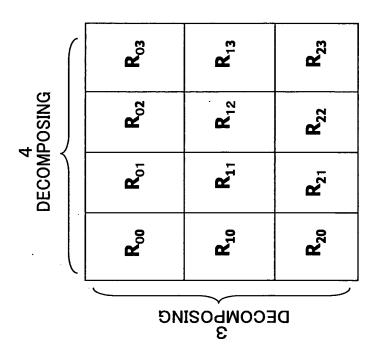


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RESOLUTION LEVELS

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HIGH FREQUENCY **BANDWIDTH DECOMPOSITION** 4 DECOMPOSING LOW FREQUENCY DECOMBOZING 3 EREQUENCY HIGH

EBEGNENCY LOW

FIG.16

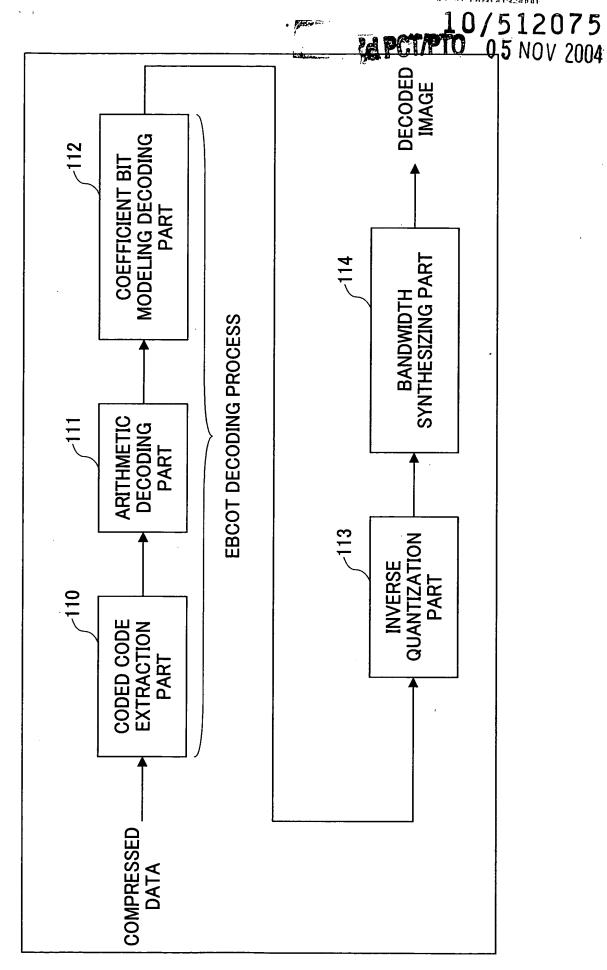
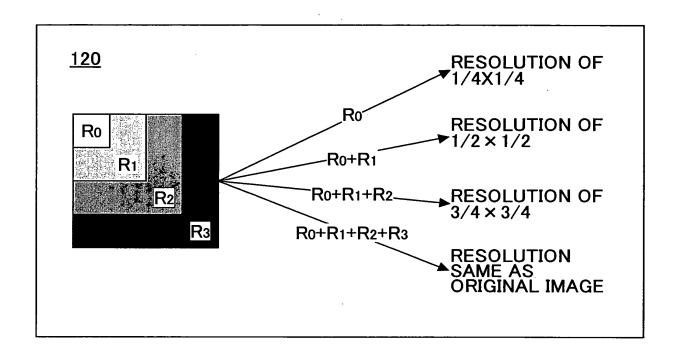


FIG.17

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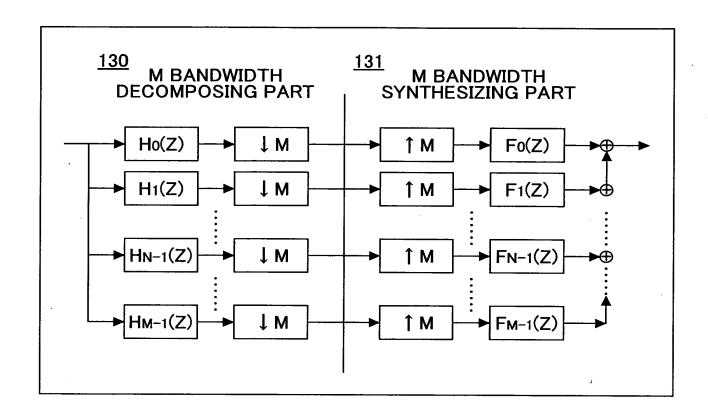
FIG.18



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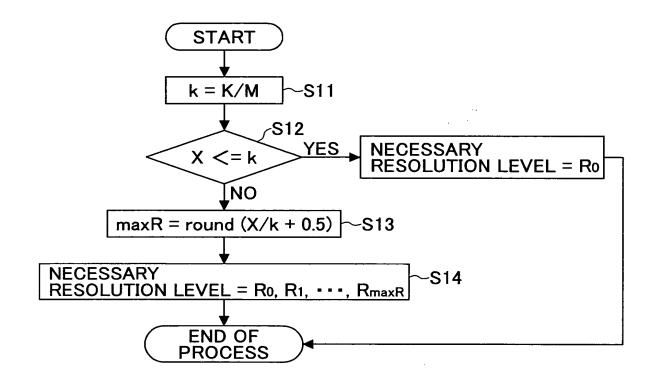
FIG.19



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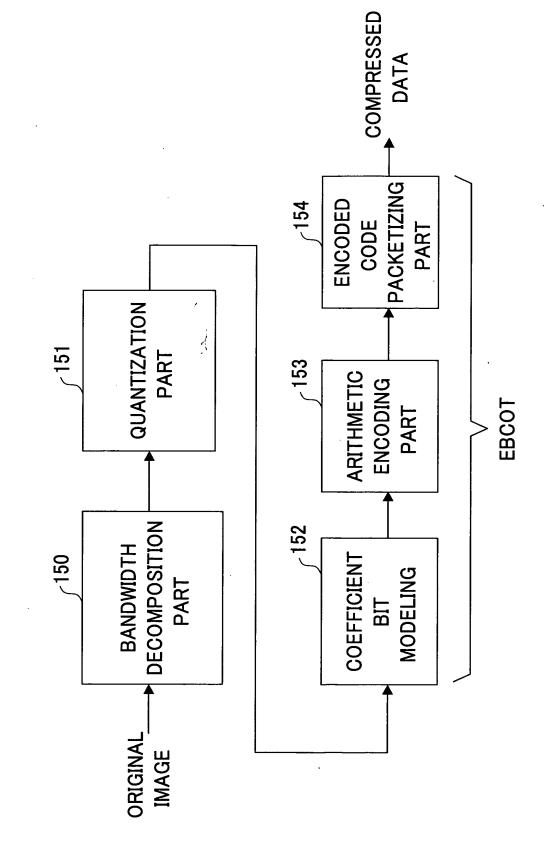
FIG.20

15400



$$\begin{array}{c} \text{NECESSARY} \\ \text{RESOLUTION LEVEL} = \begin{pmatrix} R_{00}, & R_{01}, & \cdot & \cdot & R_{0\text{maxRY}} \\ R_{10}, & R_{11}, & \cdot & \cdot & R_{1\text{maxRY}} \\ & & \cdot & \cdot & \\ R_{\text{maxRX0}}, R_{\text{maxRX1}}, & \cdot & \cdot & R_{\text{maxRXmaxRY}} \\ \end{pmatrix}$$





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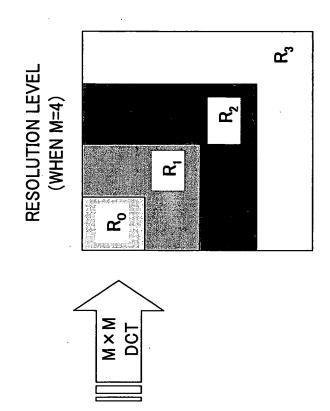
M×M	M×M	M×M	M×M
DCT	DCT	DCT	DCT
M×M	M×M	M×M	M×M
DCT	DCT	DCT	DCT
M×M	M×M	M×M	M×M
DCT	DCT	DCT	DCT
M×M	M×M	M×M	M×M
DCT	DCT	DCT	DCT

CIA

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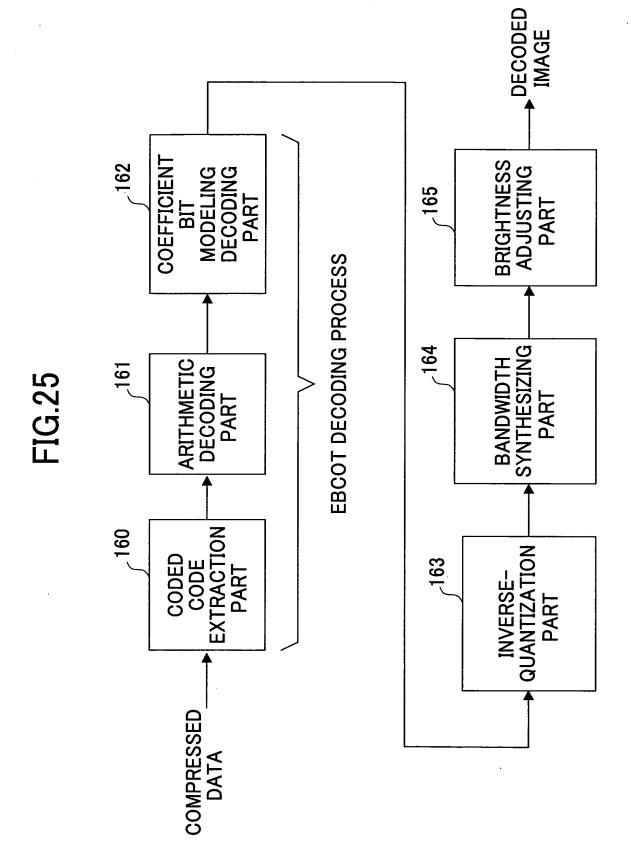


DCT TRANSFORM

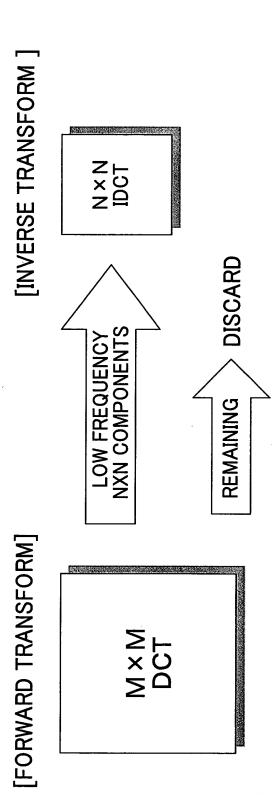


W LT	M×M	M×M	M×M
	DCT	DCT	DCT
M × M	M×M	M×M	M×M
DCT	DCT	DCT	DCT
M×M	M×M	M×M	M×M
DCT		DCT	DCT
M×M	M×M	M×M	M×M
DCT	DCT	DCT	DCT

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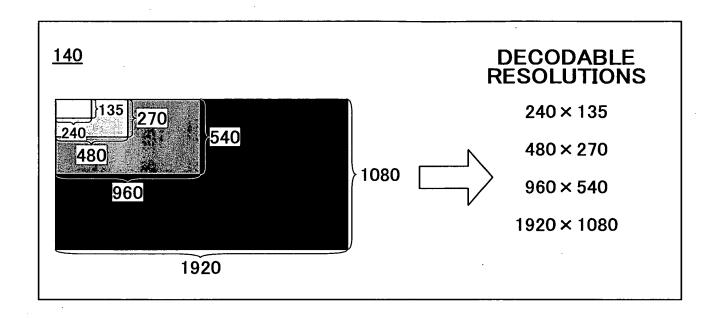
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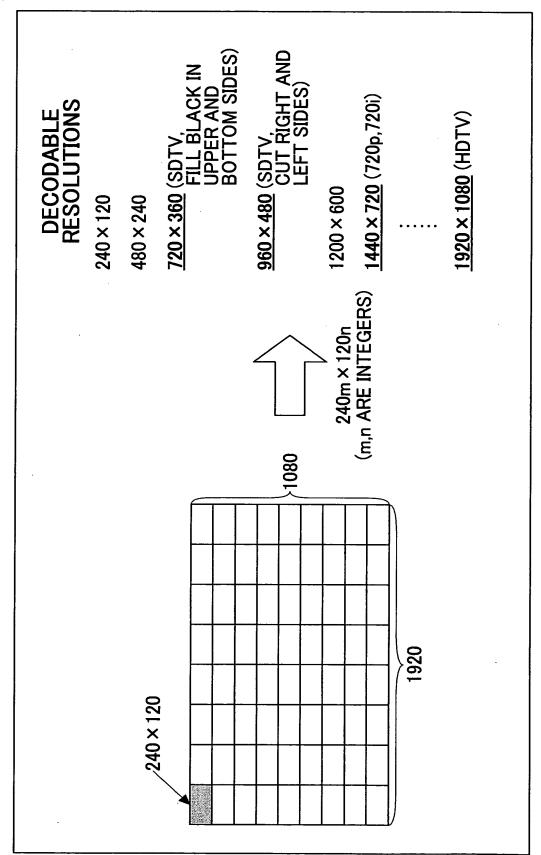


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FIG.27





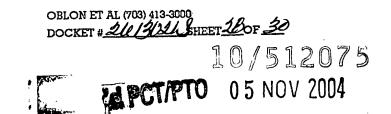


FIG.29

ORIGINAL IMAGE

: SIDBA STANDARD IMAGE

NUMBER OF PIXELS

:256*256 [pixels]

BIT WIDTH

: 8[bit/pixel]

NUMBER OF BYTES

:65536 [bytes]



FIG.30A



ORIGINAL IMAGE SIZE (256*256)

FIG.30B



3/4 SCALE RESOLUTION IMAGE (192*192)

FIG.30C



2/4 SCALE RESOLUTION IMAGE (128*128)

FIG.30D



1/4 SCALE RESOLUTION IMAGE (64*64)

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1 0 / 5 1 2 0 7 5

RESOLUTION	1 TIMES	3/4 TIMES	2/4 TIMES	1/4 TIMES
	(256*256)	(192*192)	(128*128)	(64*64)
CODE SIZE	12705	10800	7706	2525
[Bytes]	(1.55bpp)	(2.34bpp)	(3.76bpp)	(4.93bpp)
PSNR [dB]	39.96	39.24	37.20	33.75

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